
Installation

Mounting location

Mount the BIPC at any convenient location that meets or exceeds the following requirements:

- The cable length from the BIPC to the Meridian 1 SDI and to the PMS must not exceed 50 ft (15 m). If the distance is greater than 50 ft, use a short-haul modem or a line driver.
- The power supply (Figure 13) must be located so that the BIPC is within reach of the output cable (approximately 7 ft [2.1 m]). A 110/120 V, 60 Hz, 3-pin power receptacle is within reach of the power supply power cord (6 ft [1.8 m]).

To prepare the BIPC mounting location, clear sufficient space for setting the BIPC and the power supply on a flat surface, approximately 15 x 8 in. (381 x 203 mm) for the BIPC and 5.5 x 3 in. (140 x 76 mm) for the power supply. A recommended location for the BIPC is on the top of the Meridian 1 cabinet, with the power supply beside or on top of the BIPC.

Unpacking and inspection

Unpack and inspect the equipment as detailed in [Procedure 1 on page 28](#).

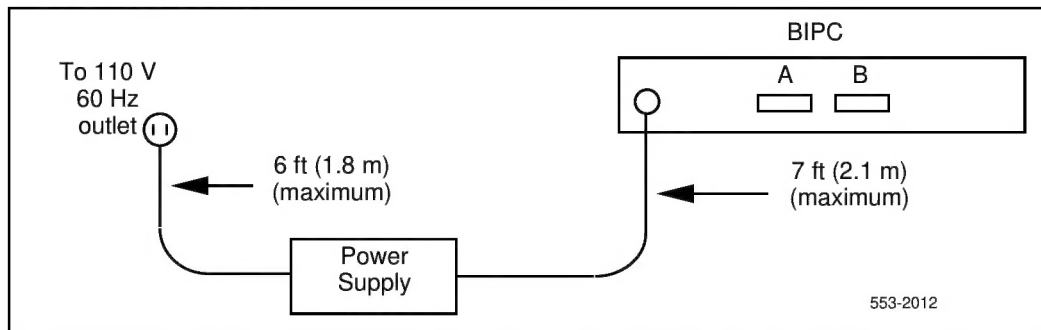
Option settings

Use the steps in [Procedure 2 on page 28](#) for selecting the options.

SDI options

Set the address and speed switches on the SDI circuit pack. See *Circuit card installation and testing* for the settings for your particular SDI card.

Figure 13
BIPC power cabling

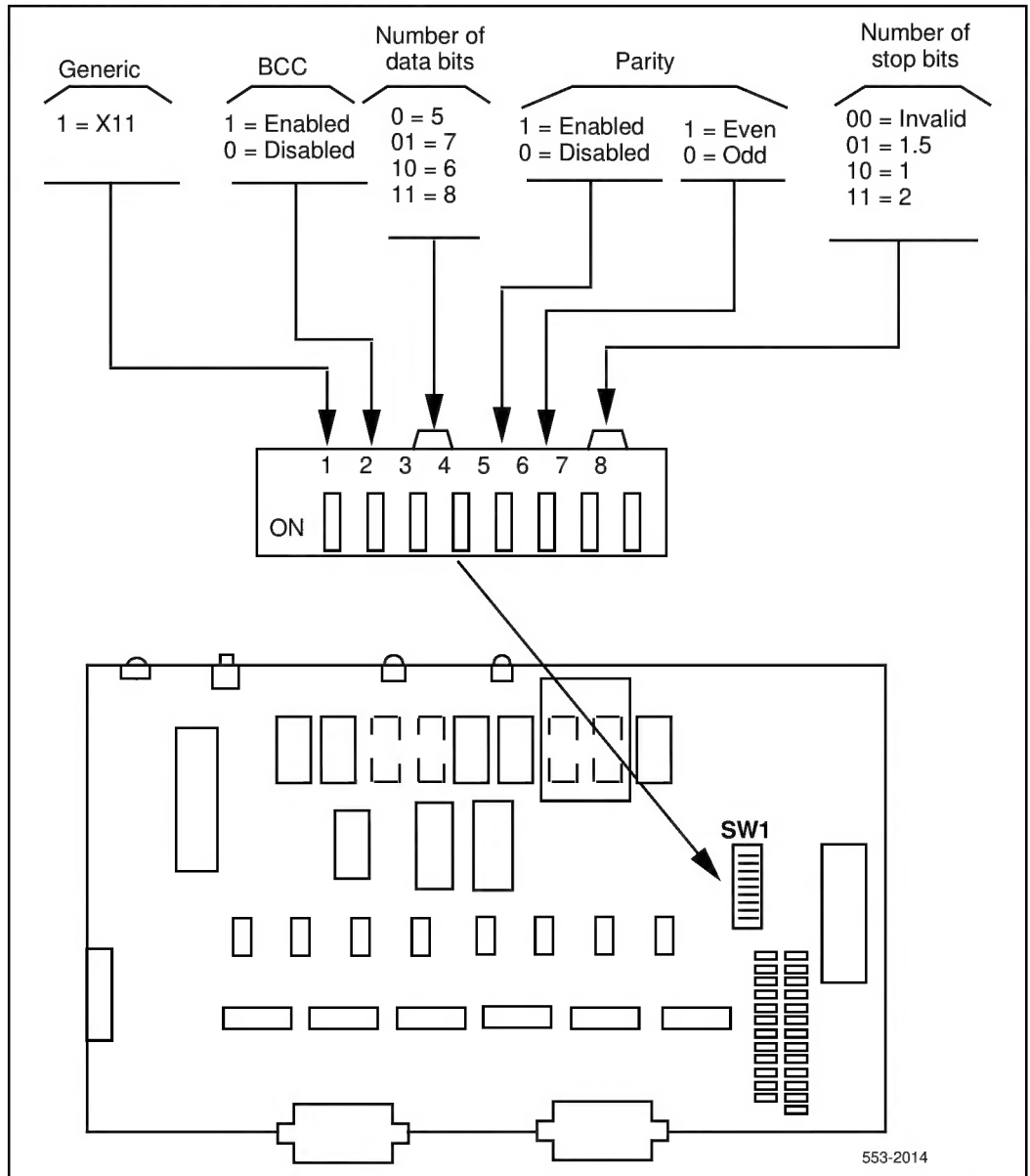


Note: The address is determined locally, and can be any number (00 to 15) not previously assigned to another SDI port.

BIPC options

Option switches and jumpers are located on the BIPC, as shown in [Figure 14](#). The options are on SW1, as seen in [Figure 3](#). Set the jumper on W2 (A) to the data rate of the Meridian 1 (9600 bps, for example). Set the jumper on W1 (B) to the data rate of the PMS (1200 bps, for example). Be sure that the power is off, and observe the static.

Figure 14
BIPC option switches and jumpers



Cable connections

Connect data and power cables to the BIPC as detailed in [Procedure 3 on page 29](#).

Operational checks

After the BIPC is installed, perform operational checks to verify that the BIPC is correctly transferring message data between the Meridian 1 and the PMS processor in both directions.

The actual operations for the test depend on the feature controlled by the PMS. In general, the procedure should check the following:

- that commands and data from the Meridian 1 are received correctly by the PMS processor
- that commands and data from the PMS are received correctly by the Meridian 1.

Note: Use a datascope to monitor data transfer if a problem is suspected.

[Procedure 4 on page 31](#) illustrates a typical operational exercise using Room Status.

Summary

To install the BIPC, follow these steps. Where the step refers to another procedure, go to that procedure for complete instructions.

- 1 Unpack and inspect the equipment ([Procedure 1](#)).
- 2 Ensure that the required option settings are set on the BIPC. For a PMS IBM Series 1 computer, or your In House System (IHS), refer to [Procedure 2](#).
- 3 Clear the BIPC mounting location.
- 4 Install the BIPC in its operating location.
- 5 Verify, and set if necessary, the option selections on the SDI circuit pack.
- 6 Using RS-232-C cables, connect BIPC Port A to the SDI and BIPC Port B to the PMS data port ([Procedure 3](#)).
- 7 Connect power to the BIPC, and press the RESET button on the faceplate.
- 8 Check the installation by performing typical operations on the system ([Procedure 4](#)).

Note: To verify message transactions between the Meridian 1 and the PMS, it may be necessary to connect a datascope into the circuit. Once the operation is verified, the datascope can be removed.

Before unpacking your BIPC, ensure that the IBM series 1 is modified for PBX interface by LODGISTIX.

Procedure 1

Unpacking and inspection procedure

- 1 Open the shipping cartons and remove the equipment carefully. Inspect all items for external evidence of shipping damage. If there is noticeable damage, save the shipping cartons and notify Northern Telecom.
- 2 Remove the four screws securing the cover on the BIPC, and lift the cover from the unit.
- 3 Inspect the interior for components that may have loosened or been damaged in shipment (especially the 2716 PROM).
- 4 Report evidence of damage to Northern Telecom.

Note: If physical installation of the BIPC is to continue at this time, leave the cover off until you verify the option selectors and connect the power cabling. Otherwise, replace the cover on the unit.

Procedure 2

BIPC option verification

- 1 Remove the top cover of the BIPC (it may already be removed in [Procedure 1](#)).
- 2 Check the data speeds for Ports A and B. Set Jumpers on options W2 and W1 to the positions marked with the required rates ([Figure 14](#)).

Note: Always use Port A for the BIPC/Meridian 1 interface and Port B for the BIPC/PMS interface.
- 3 Verify the options for Port B (selectors 3 to 8 on switch module SW1).
- 4 Verify selector 1 on switch module SW1 (ON for Meridian 1 systems).
- 5 Verify selector 2 on switch module SW1 (ON for BCC).
- 6 Replace the cover on the BIPC, or proceed to [Procedure 3](#).

Procedure 3**BIPC cable connection**

- 1** Position the BIPC and the power supply at their operating locations (on top of the Meridian 1 cabinet, for example).
- 2** With the top cover removed from the BIPC, connect the power cable from the power supply to the power connector on the BIPC.
- 3** Replace the cover on the BIPC.
- 4** Connect one end of an RS-232-C cable to Port A on the BIPC, and the other to the applicable SDI connector on the SDI card.
- 5** Connect an RS-232-C cable (the maximum length is 50 ft) between the PMS data port and Port B on the BIPC. If the distance is greater than 50 ft, use a line driver or a short-haul modem.
- 6** Plug the power supply cord into a 110 V 60 Hz AC outlet.
- 7** The BIPC can now be placed in service, at any time.

The following procedure presents a typical exercise to verify the correct operation of a BIPC unit in a system set up for Room or Maid Status control. Before installing the BIPC, prepare the Meridian 1 for the interface. The preparation consists of the following steps.

- 1** The Room Status feature must be assigned to Guest Room Directory Numbers (DNs) (Controlled Class of Service Allowed [CCSA]).
- 2** Program a Background Terminal (BGD) capability on an SDI port. The Room Status feature can be administered from any terminal designated by a service change as a BGD. Use LD 17 to configure the terminal with the following prompt-response sequence:
 - IOTB—YES
 - ADAN—NEW/CHG TTY xx
 - USER—BGD (Note 1)
 - PARM—YES
 - NDIS—150 (Note 2)

- 3 Use LD 22 and the following prompt-response sequence to verify the system configuration update:
 - REQ—PRT
 - TYPE—CFN
- 4 Verify that the number of Number of Display Messages (NDIS), shown on the printout, is 150 or more and that the only user listed on the background terminal is BGD.
- 5 Connect an ASCII terminal (or TTY) to the background port and set the following options. After you set the options, type OP <CR> to verify the settings.
 - A SE OP DI ON <CR>
 SE OP DI ME OF <CR>
 SE OP TE OF <CR>
 SE OP DI DE OF <CR>
 - B SE OP PO (Port ID) OFF <CR>
 SE OP PO (Port ID) ST ON <CR>
 - C SE OP CH ON <CR>
 - D SE OP TI DE OF <CR>
 - E SE OP TI RE OF <CR>
 - F SE OP TI DI ON <CR>
 - G SE OP SA ON <CR>
 - H SE OP CO OF <CR>
- 6 Use the steps in **Procedure 4** to test the operation of the Room Status feature.

Note 1: Only BGD message type should be assigned to this port. If other users (MTC, SCH, BUG, etc.) are already assigned to the port, remove them before proceeding to the next step.

Note 2: The number of background display messages can range from 0 to 255. To prevent losing Room Status messages during heavy traffic periods, NDIS should be set to 150 or higher. If the system memory does not allow for such an accommodation, assign the maximum number allowed.

Procedure 4**Typical operational exercise (Part 1 of 2)**

Step	Action	Verification
Room Status test		
1	Input: SE ST xxxx CH IN <CR> (Set status of Room DN to Check In. xxxx is the room DN) Input: SE ST xxxx CH OU <CR> (Set status of room DN to check out) Input: SE ST xxxx CH IN <CR> (Set status of room DN to check in)	Try making an outgoing call from telephone xxxx. The system should permit this call type as well as room-to-room dialing. Try making an outgoing call from telephone xxxx. The system should not permit this call type. However, room-to-room dialing should be possible. Try making an outgoing call from telephone xxxx. The system should now permit this call type as well as room-to-room dialing.
2	Generate Room Status messages by dialing the proper digits from the guest room telephone.	Verify the status update, which should display automatically on the terminal.
3	If the above test is successful, use LD 43 to perform a data dump.	

Procedure 4
Typical operational exercise (Part 2 of 2)

Step	Action	Verification
Meridian 1/BIPC/PMS link test		
Be sure that the BIPC is installed correctly and turned on before continuing.		
4	Press the RESET button to initialize the BIPC.	The diagnostic LED on Port A flashes momentarily.
5	Type the proper commands on a PMS terminal to initiate the database swap from PMS to Meridian 1.	The Port A and Port B LEDs flash to indicate activity on the ports.
6	After the database swap, check into a room by entering the proper commands on a PMS terminal.	The telephone in the room should be unrestricted (room-to-room and outgoing calls can be made).
7	Check out of the room by entering the commands on a PMS terminal.	The telephone in the room should be restricted, except for room-to-room calling.
8	Repeat steps 6 and 7 for other rooms.	Verify the responses.
9	Generate Maid Status messages by dialing the proper digits from a room telephone.	Verify the cleaning status update on a PMS terminal.

Note: If the above sampling of commands and responses (or a similar sampling) is processed. You may have to connect a datascopes into the circuit to verify the operations. Remove it after the tests are completed.